

# Material Safety Data Sheet

## Diphenylcarbazon- xylene cyanol FF

ACC# 75059

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Diphenylcarbazon- xylene cyanol FF

**Catalog Numbers:** LC13682

**Synonyms:**

**Company Identification:**

Labchem Inc.

200 William Pitt Way

Pittsburgh, PA 15238

**For information, call:** 412-826-5230

**For CHEMTREC assistance, call:** 800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
67-63-0	Isopropyl alcohol	balance	200-661-7
538-62-5	Diphenylcarbazon	0.25	208-698-0
2650-17-1	Xylene cyanol FF	0.03	220-167-5

**Hazard Symbols:** None listed.

**Risk Phrases:** None listed.

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: dark green. Flash Point: 53 deg F. **Warning! Flammable liquid.** May cause eye and skin irritation. Use only with adequate ventilation or respiratory protection.

**Target Organs:** None known.

#### Potential Health Effects

**Eye:** Irritation, lacyramation, possible burns with permanent corneal damage.

**Skin:** Narcosis with nausea, vomiting, hypotension, and inhalation symptoms.

**Ingestion:** Preceding symptoms plus abdominal pain, uremia, diuresis, oliguria and coma. Death may occur from respiratory paralysis.

**Inhalation:** Dizziness, incoordination, headache, stupor, nausea, hematemesis, ension, anemia, narcosis, areflexia, depressed respiration leading to coma in severe cases.

**Chronic:** May cause dermatitis and conjunctivitis.

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:** Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:** Do NOT induce vomiting. Get medical aid at once. Give oxygen if respiration is depressed.

**Inhalation:** Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Firefighting Measures

**General Information:** Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Avoid breathing vapors, use approved respirator if necessary. Move container if possible, cool with flooding amounts of water. Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Dangerous fire/negligible explosion hazard when exposed to heat or flame.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Shut off ignition source, avoid vapors. Isolate, ventilate spill area. Label reclaimed spill material as flammable. Area may be washed down with flooding amounts of water - do not allow vapors to accumulate in drains, sewers, low level enclosures or wells.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid breathing dust, vapor, mist, or gas.

**Storage:** Protect from heat and incompatibles. Store capped as a flammable liquid in safety cabinet or vault that is ventilated.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ventilation equipment must be explosion-proof. Odor detection is NOT A SUBSTITUTE for monitors.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Isopropyl alcohol	(400 ppm); (500ppm)	400 ppm TWA; 980 mg/m3 TWA 2000 ppm	400 ppm TWA; 980

	STEL	IDLH (10 percent lower explosive limit)	mg/m3 TWA
Diphenylcarbazone	none listed	none listed	none listed
Xylene cyanol FF	none listed	none listed	none listed

**OSHA Vacated PELs:** Isopropyl alcohol: 400 ppm TWA; 980 mg/m3 TWA Diphenylcarbazone: No OSHA Vacated PELs are listed for this chemical. Xylene cyanol FF: No OSHA Vacated PELs are listed for this chemical.

#### **Personal Protective Equipment**

**Eyes:** Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. Respirator Codes DHEW (NIOSH) Publication No. 78-210. 1000ppm - CCROVF. pm - GMOV. 0ppm - GMOVfb/SAF/SCBAF.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** dark green

**Odor:** alcohol-like

**pH:** Not available.

**Vapor Pressure:** 33 mm Hg @20C

**Vapor Density:** 2.1

**Evaporation Rate:** < ether

**Viscosity:** Not available.

**Boiling Point:** 181 deg F

**Freezing/Melting Point:** -127 deg F

**Decomposition Temperature:** Not available.

**Autoignition Temperature:** 750 deg F ( 398.89 deg C)

**Flash Point:** 53 deg F ( 11.67 deg C)

**NFPA Rating:** Not published.

**Explosion Limits, Lower:** 2

**Upper:** 12.7

**Solubility:** Not available.

**Specific Gravity/Density:** 0.8

**Molecular Formula:** Not available.

**Molecular Weight:** Not available.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials.

**Incompatibilities with Other Materials:** Oxidizing agents.

**Hazardous Decomposition Products:** Oxides of carbon.

**Hazardous Polymerization:** Has not been reported

## Section 11 - Toxicological Information

**RTECS#:****CAS#** 67-63-0 unlisted.**CAS#** 538-62-5 unlisted.**CAS#** 2650-17-1 unlisted.**LD50/LC50:****CAS#** 67-63-0:

Oral, mouse: LD50 = 3600 mg/kg;

Oral, rabbit: LD50 = 6410 mg/kg;

Oral, rat: LD50 = 5045 mg/kg;

Skin, rabbit: LD50 = 12800 mg/kg;

**CAS#** 538-62-5:**CAS#** 2650-17-1:**Carcinogenicity:****CAS#** 67-63-0:**IARC:** Group 3 carcinogen **CAS#** 538-62-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.**CAS#** 2650-17-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.**Epidemiology:** Isopropanol-- skin and mucous membrane irritant, severe eye irritant, and central nervous system depressant.**Teratogenicity:** No data available.**Reproductive Effects:** No data available.**Neurotoxicity:** No data available.**Mutagenicity:** No data available.**Other Studies:** No data available.

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
<b>Shipping Name:</b>	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)				No information available.
<b>Hazard Class:</b>	3				
<b>UN Number:</b>	UN1993				
<b>Packing Group:</b>	PG II				

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 67-63-0 is listed on the TSCA inventory.

CAS# 538-62-5 is listed on the TSCA inventory.

CAS# 2650-17-1 is listed on the TSCA inventory.

#### Health & Safety Reporting List

CAS# 67-63-0: Effective Date: December 15, 1986; Sunset Date: December 15, 1996

#### Chemical Test Rules

CAS# 67-63-0: Testing required by: manufacturers; importers; processors (40

#### Section 12b

CAS# 67-63-0: 4/12b

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### SARA

#### Section 302 (RQ)

None of the chemicals in this material have an RQ.

#### Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

#### SARA Codes

CAS # 67-63-0: acute, chronic, flammable.

#### Section 313

This chemical is not at a high enough concentration to be reportable under Section 313. No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

#### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 67-63-0 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

CAS# 538-62-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 2650-17-1 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### Hazard Symbols:

Not available.

#### Risk Phrases:

#### Safety Phrases:

#### WGK (Water Danger/Protection)

CAS# 67-63-0: 1

CAS# 538-62-5: No information available.

CAS# 2650-17-1: No information available.

**Canada**

CAS# 67-63-0 is listed on Canada's DSL List. CAS# 67-63-0 is listed on Canada's DSL List. CAS# 538-62-5 is listed on Canada's DSL List. CAS# 538-62-5 is listed on Canada's DSL List. CAS# 2650-17-1 is listed on Canada's DSL List. CAS# 2650-17-1 is listed on Canada's DSL List.

WHMIS: Not available.

CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List.

CAS# 538-62-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 2650-17-1 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits**

CAS# 67-63-0: OEL-AUSTRALIA: TWA 400 ppm (980 mg/m<sup>3</sup>); STEL 500 ppm (1225 mg/m<sup>3</sup>) OEL-BELGIUM: TWA 400 ppm (985 mg/m<sup>3</sup>); STEL 500 ppm (1230 mg/m<sup>3</sup>) OEL-DENMARK: TWA 200 ppm (490 mg/m<sup>3</sup>); Skin OEL-FRANCE: STEL 400 ppm (980 mg/m<sup>3</sup>) OEL-GERMANY: TWA 400 ppm (980 mg/m<sup>3</sup>) OEL-JAPAN: STEL 400 ppm (980 mg/m<sup>3</sup>) OEL-THE NETHERLANDS: TWA 400 ppm (980 mg/m<sup>3</sup>); Skin OEL-THE PHILIPPINES: TWA 400 ppm (980 mg/m<sup>3</sup>) OEL-RUSSIA: STEL 400 ppm (10 mg/m<sup>3</sup>) OEL-SWEDEN: TWA 150 ppm (350 mg/m<sup>3</sup>); STEL 250 ppm (600 mg/m<sup>3</sup>) OEL-SWITZERLAND: TWA 400 ppm (980 mg/m<sup>3</sup>); STEL 800 ppm OEL-TURKEY: TWA 200 ppm (500 mg/m<sup>3</sup>) OEL-UNITED KINGDOM: TWA 400 ppm (980 mg/m<sup>3</sup>); STEL 500 ppm; Skin OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

<b>Section 16 - Additional Information</b>
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**MSDS Creation Date:** 4/08/1998

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